



642-618^{Q&As}

Deploying Cisco ASA Firewall Solutions (FIREWALL v2.0)

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**QUESTION 1**

On which type of encrypted traffic can a Cisco ASA appliance running software version 8.4.1 perform application inspection and control?

- A. IPsec
- B. SSL
- C. IPsec or SSL
- D. Cisco Unified Communications
- E. Secure FTP

Correct Answer: D

http://www.cisco.com/en/US/solutions/collateral/ns340/ns394/ns165/ns391/guide__c07-494658.html

QUESTION 2

Which other match command is used with the match flow ip destination-address command within the class map configurations of the Cisco ASA MPF?

- A. match tunnel-group
- B. match access-list
- C. match default-inspection-traffic
- D. match port
- E. match dscp

Correct Answer: A

<http://www.cisco.com/en/US/docs/security/asa/asa71/configuration/guide/vpnggrp.html> or
http://www.cisco.com/en/US/docs/security/asa/asa82/configuration/guide/conns_qos.html

QUESTION 3

With Cisco ASA active/active or active/standby stateful failover, which state information or table is not passed between the active and standby Cisco ASA by default?

- A. NAT translation table
- B. TCP connection states
- C. UDP connection states
- D. ARP table



E. HTTP connection table

Correct Answer: E

http://www.cisco.com/en/US/docs/security/asa/asa82/configuration/guide/ha_overview.html#wp_1078922



Stateful Failover

When Stateful Failover is enabled, the active unit continually passes per-connection state information to the standby unit. After a failover occurs, the same connection information is available at the new active unit. Supported end-user applications are not required to reconnect to keep the same communication session.

Table 32-2 list the state information that is and is not passed to the standby unit when Stateful Failover is enabled.

Table 32-2 State Information

| State Information Passed to Standby Unit | State Information Not Passed to Standby Unit |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAT translation table | The HTTP connection table (unless HTTP replication is enabled). |
| TCP connection states | The user authentication (uauth) table. Inspected protocols are subject to advanced TCP-state tracking, and the TCP state of these connections is not automatically replicated. While these connections are replicated to the standby unit, there is a best-effort attempt to re-establish a TCP state. |
| UDP connection states | The routing tables. After a failover occurs, some packets may be lost or routed out of the wrong interface (the default route) while the dynamic routing protocols rediscover routes. |
| The ARP table | State information for Security Service Modules. |
| The Layer 2 bridge table (when running in transparent firewall mode) | DHCP server address leases. |
| The HTTP connection states (if HTTP replication is enabled) | Stateful failover for phone proxy. When the active unit goes down, the call fails, media stops flowing, and the phone should unregister from the failed unit and reregister with the active unit. The call must be re-established. |
| The ISAKMP and IPsec SA table | — |
| GTP PDP connection database | — |
| SIP signalling sessions | — |

The following WebVPN features are not supported with Stateful Failover:

- Smart Tunnels
- Port Forwarding
- Plugins
- Java Applets
- IPv6 clientless or Anyconnect sessions
- Citrix authentication (Citrix users must reauthenticate after failover)

QUESTION 4



Which four unicast or multicast routing protocols are supported by the Cisco ASA appliance? (Choose four.)

- A. RIP (v1 and v2)
- B. OSPF
- C. ISIS
- D. BGP
- E. EIGRP
- F. Bidirectional PIM
- G. MOSPF
- H. PIM dense mode

Correct Answer: ABEF

http://www.cisco.com/en/US/docs/security/asa/asa84/asdm64/configuration_guide/route_overview.html#wp1125708

-Enhanced Interior Gateway Routing Protocol (EIGRP)

Enhanced IGRP provides compatibility and seamless interoperability with IGRP routers. An automatic redistribution mechanism allows IGRP routes to be imported into Enhanced IGRP, and vice versa, so it is possible to add Enhanced IGRP

gradually into an existing IGRP network. For more information on configuring EIGRP, see the chapter 'Configuring EIGRP'.

-Open Shortest Path First (OSPF)

Open Shortest Path First (OSPF) is a routing protocol developed for Internet Protocol (IP) networks by the interior gateway protocol (IGP) working group of the Internet Engineering Task Force (IETF). OSPF uses a link-state algorithm in order

to build and calculate the shortest path to all known destinations. Each router in an OSPF area contains an identical link-state database, which is a list of each of the router usable interfaces and reachable neighbors

For more information on configuring OSPF, see the chapter 'Configuring OSPF'. -Routing Information Protocol The Routing Information Protocol (RIP) is a distance-vector protocol that uses hop count as its metric. RIP is widely used for

routing traffic in the global Internet and is an interior gateway protocol (IGP), which means that it performs routing within a single autonomous system.

For more information on configuring RIP, see the chapter 'Configuring RIP'.

<http://www.cisco.com/en/US/docs/security/asa/asa81/config/guide/multicast.html#wp1060775>

Multicast Routing Overview The adaptive security appliance supports both stub multicast routing and PIM multicast routing. However, you cannot configure both concurrently on a single adaptive security appliance.

Stub multicast routing provides dynamic host registration and facilitates multicast routing. When configured for stub multicast routing, the adaptive security appliance acts as an IGMP proxy agent. Instead of fully participating in multicast

routing, the adaptive security appliance forwards IGMP messages to an upstream multicast router, which sets up delivery of the multicast data. When configured for stub multicast routing, the adaptive security appliance cannot be



configured

for PIM.

The adaptive security appliance supports both PIM-SM and bi-directional PIM. PIM-SM is a multicast routing protocol that uses the underlying unicast routing information base or a separate multicast-capable routing information base. It builds

unidirectional shared trees rooted at a single Rendezvous Point per multicast group and optionally creates shortest-path trees per multicast source.

Bi-directional PIM is a variant of PIM-SM that builds bi-directional shared trees connecting multicast sources and receivers. Bi-directional trees are built using a DF election process operating on each link of the multicast topology. With the

assistance of the DF, multicast data is forwarded from sources to the Rendezvous Point, and therefore along the shared tree to receivers, without requiring source-specific state. The DF election takes place during Rendezvous Point

discovery and provides a default route to the Rendezvous Point.

QUESTION 5

On Cisco ASA Software Version 8.3 and later, which two statements correctly describe the NAT table or NAT operations? (Choose two.)

- A. The NAT table has four sections.
- B. Manual NAT configurations are found in the first (top) and/or the last (bottom) section(s) of the NAT table.
- C. Auto NAT also is referred to as Object NAT.
- D. Auto NAT configurations are found only in the first (top) section of the NAT table.
- E. The order of the NAT entries in the NAT table is not relevant to how the packets are matched against the NAT table.
- F. Twice NAT is required for hosts on the inside to be accessible from the outside.

Correct Answer: BC

<http://www.cisco.com/en/US/docs/security/asa/asa83/upgrading/migrating.html>



Table 3 New NAT Commands

| New Commands | Configuration Mode | Syntax |
|---------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Object NAT (Typically used for regular NAT configurations.) | | |
| nat dynamic | Object network | <pre>object network name nat [(real_ifo,mapped_ifo)] dynamic {[mapped_inline_host_ip] [interface] [mapped_obj] [pat-pool mapped_obj [round-robin]] [interface]} [dns]</pre> |
| nat static | Object network | <pre>object network name nat [(real_ifo,mapped_ifo)] static {mapped_inline_ip mapped_obj interface} [dns service {tcp udp} real_port mapped_port] [no-proxy-arp] [route-lookup]</pre> |
| Twice NAT (Typically used for policy NAT configurations.) | | |
| nat source dynamic | Global | <pre>nat [(real_ifo,mapped_ifo)] [line {after-object [line]}] source dynamic {real_obj any} {[mapped_obj] [pat-pool mapped_obj [round-robin]] [interface]} [destination static {mapped_obj interface} {real_obj any}] [service {mapped_dest_svc_obj real_dest_svc_obj} [dns] [unidirectional] [inactive] [description desc]</pre> |
| nat source static | Global | <pre>nat [(real_ifo,mapped_ifo)] [line {after-object [line]}] source static {real_obj any} {mapped_obj interface any} [destination static {mapped_obj interface} {real_obj any}] [service {real_sro_mapped_dest_svc_obj any} mapped_sro_real_dest_svc_obj] [dns] [unidirectional [no-proxy-arp] [route-lookup]] [inactive] [description desc]</pre> |

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